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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,553	04/03/2006	Akio Morozumi	032865-027	8222

21839 7590 01/02/2008  
BUCHANAN, INGERSOLL & ROONEY PC  
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ALEXANDRIA, VA 22313-1404

EXAMINER
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SNYDER, STEVEN G

ART UNIT	PAPER NUMBER
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2184

NOTIFICATION DATE	DELIVERY MODE
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01/02/2008

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ADIPFDD@bipc.com  
debra.hawkins@bipc.com

## Office Action Summary

**Application No.**

10/562,553

**Applicant(s)**

MOROZUMI ET AL.

**Examiner**

Steven G. Snyder

**Art Unit**

2184

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 28 December 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 10-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 10-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 December 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 12/28/2005.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

### **DETAILED ACTION**

This is in response to application filed on December 28, 2005 in which claims 10 to 18 are presented for examination.

#### ***Status of Claims***

Claims 10 to 18 are pending, of which claim 10 is in independent form.

#### ***Priority***

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

#### ***Claim Objections***

1. **Claims 10 - 18** are objected to because of the following informalities: this claim uses incorrect grammar when it states, "management of user of the script file is open but management of user of the firmware is restricted." Also, this claim uses the terms "open" and "restricted" when describing user management. However, these terms are not defined in the specification. Also, the remaining claims inherit the objection to claim 10 due to the fact that they depend on claim 10. Appropriate correction is required.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. **Claims 10, 12, 15, 17, and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Mahajan, U.S. Patent 5,404,528 (hereinafter referred to as Mahajan).**

Referring to claim 10, Mahajan discloses the limitation of “A multipurpose semiconductor integrated circuit device comprising: a plurality of types of input/output interfaces” (See Mahajan Fig. 2 along with column 2 lines 45 – 56). Also, Mahajan discloses the limitation of “a memory including a file storage region for storing a script file defining processes relating to data inputted and/or outputted through the plurality of types of input/output interfaces using a script language and firmware” (See Mahajan Fig. 2 memory 120, ROM 112, RAM 114). Mahajan further discloses the limitation of “an interpreter capable of executing the script file” (See Mahajan Fig. 2 there is a script interpreter embodied as a program that is stored in the memory 120). Finally, Mahajan discloses the limitation of “a file management system that admits accessing the file storage region of the memory through at least one of the plurality of types of input/output interfaces so that management of user of the script file is open but management of user of the firmware is restricted” (See Mahajan Fig. 2 and Fig. 3. Also,

column 2 lines 57 – 62 discloses the system having RAM that holds applications and ROM that holds other programs. It is known in the art that ROM (read only memory) can not be edited).

**As per claim 12**, the majority of the limitations of this claim have been noted in the rejection of claim 10 (See detail of claim 10 rejection above). Also, Mahajan discloses the limitation of "a plurality of script files are stored in the file storage region" (See Mahajan Fig. 2 scripts in memory 120). Further, Mahajan discloses the limitations of "the multipurpose semiconductor integrated circuit device further comprises a program management system that monitors occurrences of events, selects one out of the plurality of script files that is associated with an event that has occurred, and has a selected script file executed by the interpreter" (See Mahajan Fig. 3 where events 24 cause a script correlation list 19a to choose one of the scripts, which is then executed by the interpreter 19).

**As per claim 15**, the majority of the limitations of this claim have been noted in the rejection of claim 12 (See detail of claim 12 rejection above). Also, Mahajan discloses the limitation of accessing "the file storage region as a mass storage class" (See Mahajan Fig. 2 mass storage memory 120). Further, Mahajan discloses a LAN interface that connects the system to a local area network (See Fig. 2). Also, in light of applicant's specification, specifically paragraph [0016], an example of a PC interface is a USB interface. It is known in the art that network connections are often wired

connections that could use USB cables and connectors. This meets the limitation of the instant claim that states, "one out of the plurality of types of input/output interfaces is a PC interface for connecting to a computer terminal."

**As per claim 17**, the majority of the limitations of this claim have been noted in the rejection of claim 10 (See detail of claim 10 rejection above). Also, Mahajan discloses a LAN interface that connects the system to a local area network (See Fig. 2). It is known in the art that network connections are often wired connections using Ethernet cables or USB cables and connectors. This meets the limitation of the instant claim that states, "a connector connected to one out of the plurality of types of input/output interfaces."

**As per claim 18**, the majority of the limitations of this claim have been noted in the rejection of claim 10 (See detail of claim 10 rejection above). Also, Mahajan discloses a LAN interface that connects the system to a local area network (See Fig. 2). It is known in the art that network connections are often wired connections using Ethernet cables or USB cables and connectors. This meets the limitation of the instant claim that states, "a connector connected to one out of the plurality of types of input/output interfaces." Also, as seen in Fig. 2, the system could send data to connected devices, such as a scanner 131 or a printer 132. This meets the limitation of the instant claim that states, "a target device connected to one out of the plurality of types of input/output interface."

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. **Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mahajan in view of Steinberg et al., U.S. Patent 6,628,325 (hereinafter referred to as Steinberg).**

**As per claim 11**, the majority of the limitations of this claim have been noted in the rejection of claim 10 (See detail of claim 10 rejection above). Mahajan discloses the limitation of "one out of the plurality of types of input/output interfaces is a network interface" (See Mahajan Fig. 2 LAN interface 115 to a local area network).

It is noted, however, that Mahajan does not specifically teach the limitations of "a network interface that is accessed based on an address on a computer network and supports at least one network protocol that is valid for the computer network, another one out of the plurality of types of input/output interfaces is a serial interface that supports serial input/outputs, and the multipurpose semiconductor integrated circuit device further comprises a transfer means for transferring data between the network interface and the serial interface." Steinberg, however, achieves the aspect of a device that can be used to connect a camera to a network. This device includes a serial port and a network communications port (See Steinberg column 2 lines 39 – 48). Also,

Steinberg achieves the aspect of structuring the data for transmission over a particular network. Further, Steinberg shows how IP addresses are used to determine the destination of the data (See Steinberg Fig. 7). Still further, Steinberg achieves the aspect of the device capable of connecting to a camera by way of a serial port, and connecting to a network interface (See Steinberg Fig. 4). Finally, Steinberg achieves the aspect of the device being capable of converting data to fit different formats (See Steinberg Fig. 8).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and system of Mahajan's invention, as explained above, to include Steinberg's invention, wherein the system would have the capability of connecting to a serial port and a network interface, and converting between the two formats so that data received on the serial port can be transmitted via the network interface, and vice versa. This would provide a means for connecting two devices that follow different protocols and allowing communication between the devices.

**6. Claims 13 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mahajan and Steinberg, as applied to claims 10, 12 above, and further in view of Herrero et al., U.S. Patent Application 2004/0133626 (hereinafter referred to as Herrero).**

**As per claim 13**, the majority of the limitations of this claim have been noted in the rejection of claim 12 (See detail of claim 12 rejection above). Also, Mahajan



discloses a system with many interfaces, wherein one of the interfaces is a network interface (See Mahajan Fig. 2). Further, Mahajan discloses selecting a script file from a plurality of scripts (See Mahajan Fig. 3).

It is noted, however, that Mahajan does not specifically teach the limitations of "the multipurpose semiconductor integrated circuit device further comprises a web server system that supplies at least one web output file stored in the file storage region via the network interface in accordance with HTTP protocol, and the web server system supports CGI and/or SSI and the program management system selects a script file designated using CGI and/or SSI." Steinberg, however, achieves the aspect of storing data and placing the data on the web (See Steinberg Fig. 16). Steinberg also achieves the aspect of following the TCP/IP protocol (See Steinberg Fig. 7).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and system of Mahajan's invention, as explained above, to include Steinberg's invention, wherein data to be placed on the web would be stored in the file storage region of memory. This would provide a place to temporarily store the data and convert the data to the TCP/IP protocol.

It is also noted, however, that neither Mahajan nor Steinberg specifically teaches the limitations of "the web server system supports CGI and/or SSI and the program management system selects a script file designated using CGI and/or SSI." Herrero, however, achieves the aspect of a web server that accepts CGI and SSI requests (See Herrero page 5 table in the right column, typeX).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and system of the combination of Mahajan and Steinberg's inventions, as explained above, to include Herrero's invention, wherein a web server that accepts CGI and SSI requests is used to place data on the web. This would provide a means for connecting the system to the internet.

**As per claim 14**, the majority of the limitations of this claim have been noted in the rejection of claim 13 (See detail of claim 13 rejection above). Also, it is known in the art that interface information, such as address or identification information, can be obtained by running a process on a processor that is connected to the interface. This information could then be used in any manner desired by the user, such as displaying it on the web, as described in claim 13. This meets the limitations of the instant claim.

Also, since this claim depends on claim 13, the motivation to combine Mahajan, Steinberg, and Herrero's inventions applies to this claim as well.

**7. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mahajan in view of Kaji, Japanese Patent Application 2003-108539 (hereinafter referred to Kaji).**

**As per claim 16**, the majority of the limitations of this claim have been noted in the rejection of claim 12 (See detail of claim 12 rejection above). Also, Mahajan discloses, in Fig. 3, choosing a script from a plurality of scripts.

It is noted, however, that Mahajan does not specifically teach the limitation of “the multipurpose semiconductor integrated circuit device further comprises a timer function and an SNTP client function for obtaining time information via the network interface and synchronizing the timer function, and the program management system selects one out of the plurality of script files based on time information of the timer function.” Kaji, however, achieves the aspect of synchronizing timing between a client and a server. This is done by transmitting a command and performing calculations (See translated abstract of Kaji).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method and system of Mahajan's invention, as explained above, to include Kaji's invention, wherein timing information is used to select a script. This would provide a means for determining which script is best suited for the current task.

***Conclusion***

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent Application 2002/0059474 discloses a system with a plurality of I/O interfaces, a memory with many regions, and a script engine to interpret and execute scripts.

U.S. Patent Application 2003/0217126 and 2007/0209076 disclose modifying INF files or script files.

U.S. Patent 6,912,597 discloses a multi-function peripheral using scripts.

U.S. Patent Application 2003/0061408 discloses a mass storage apparatus connected to a PC.

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Art Unit: 2184

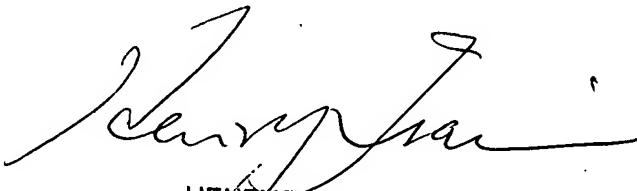
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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven G. Snyder whose telephone number is (571) 270-1971. The examiner can normally be reached on Mon. - Thurs. 9:00 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Tsai can be reached on (571) 272-4176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

S.S.

  
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SUPERVISORY PATENT EXAMINER  
12/21/07